MASS W200

owners manual

Introduction

Thank you for your purchase of the MASS W200 subwoofer, which has been designed and constructed using quality systems and materials to provide years of enjoyment, reliability and pride of ownership.

Music is and should be a natural enhancement of life. It stimulates the imagination, changes your mood, helps you relax, and provides endless hours of entertainment. At Monitor Audio we pride ourselves in attempting to make the listening experience as close as possible to the original 'music' production.

Please read through this manual to familiarise yourself with any safety advice and how to set up your subwoofer to achieve the very best listening experience.

Please retain this manual for future reference.

Unpacking

Care must be taken at all times when handling the MASS W200 due to the weight and the construction of the product. We recommend a two-person lift wherever appropriate.

A feature of the MASS W200 is the fully encasing grille. Great care must be exercised at all times to ensure it is not damaged during unpacking and when finally sited in the room. Any physical damaged caused to the grille by not complying with this requirement will not be covered by warranty.

The mains power cord(s) and 12 volt trigger lead are contained separately in the packaging and should be removed prior to unpacking the product.

To remove the MASS W200 from its carton place some protective material on the floor and having removed any loose items (mains lead(s) and 12 volt trigger lead) from the top of the packaging, carefully invert the carton. Also see the icons printed on the carton. Gradually pull the carton upwards to expose the subwoofer, which will be presented with its base uppermost. Remove fixing tape from bag and expose the base/cabinet.

Positioning/Initial Set Up

Leave the MASS W200 unplugged from the mains until the installation procedure is completed.

The MASS W200 should now be sited in the most suitable position, preferably not directly in the corner of a room as this may cause excessive bass boom. Once a desirable position is achieved it is important to check if the cables are long enough to reach comfortably without being under tension. The optimal control settings will depend entirely on your system configuration, room environment and personal tastes. For initial trials set the controls as follows:

Volume Control	Should be set to about 10 o'clock.
Frequency Control	Should be set to the approximate frequency depending on main speakers when using the L & R Line Level Inputs.
Phase Control	Should be set to zero degrees.
Mode Switch	Should be set to 'on'.
12v Trigger (optional)	Do not connect at this stage.
Input	Connections from the amplifier can be made at this stage before the power is connected to the MASS W200.

Never connect or disconnect the RCA input/ output leads with the MASS W200 switched on.

Set Up

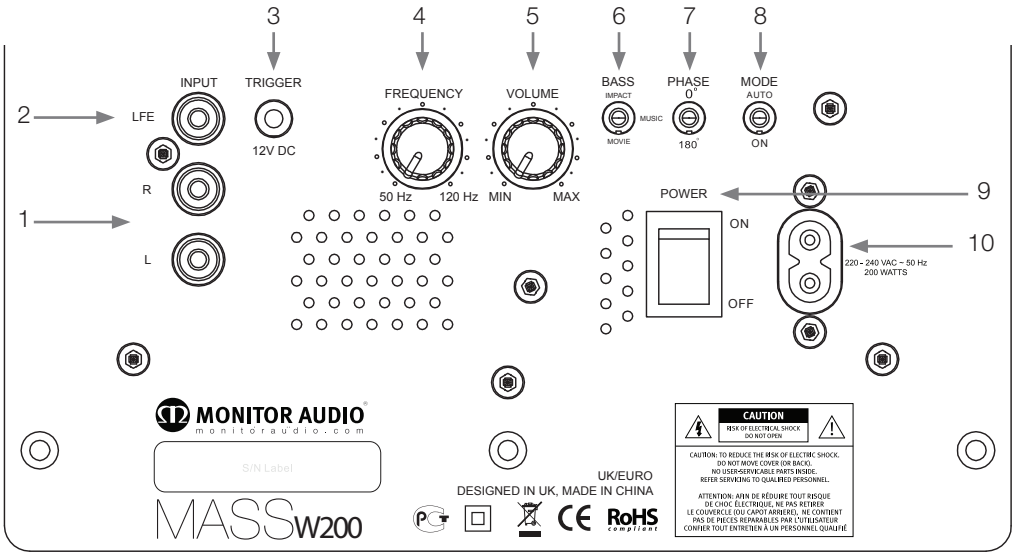
Once the input cables are connected and the controls are set in accordance with the initial set-up procedure above, the MASS W200 can be connected to the mains power supply and switched on at the mains power switch.

Do not play any music or movies at this stage as the auto set up of the AV amp (if using one) will need to be run. If your amp has an auto set up procedure, run this now with the volume set to around 10 o'clock. This should be enough for the AV amp to acquire the correct settings. If you do not have an auto set up or are using a stereo amp connected to the left and right inputs, set the crossover in accordance with your main speakers. If using the MASS 10's this should be around 80Hz, but experimentation is advisable.

When the auto set up is complete, check that the subwoofer settings on the AV amp are correct. The crossover frequency should be roughly 80Hz and the level should be no more/ less than +/- 3dB. If not I would suggest adjusting accordingly.

Now play a variety of music/ film excerpts that you are familiar and adjust the level of the MASS W200 to a point where it integrates with the rest of the system and to where you are happy. The volume of the amp can then be adjusted to an average listening level once you are sure everything is working correctly to double check your sub woofer level settings.

Amp Panel & Controls



1. RCA Stereo Inputs (Left & Right)
   This is the method of signal input when using a stereo amplifier system, connection can be provided by a pair of high-quality signal cables from the pre-out section of an amplifier. The crossover frequency will need to be set if using this method of connection. If using the MASS 10's set the crossover dial to approximately 80Hz. This may vary depending on room and tastes. **Note: -** cable lengths should not exceed 10 metres to avoid interference from other electrical appliances.

2. LFE Input (RCA Type)
   This input is to be used when connecting the MASS W200 to an AV amplifier/ receiver. When using the LFE input, the crossover frequency dial is not used. This is due to the crossover function being controlled by the AV amplifier/ processor to which it is connected. If using the MASS 10's set the crossover dial to approximately 80Hz.

3. 12 Volt Trigger Input ~ Centre Pin = +12Vdc
   For external power control from AV amplifier/ receiver to the MASS W200. Monitor Audio recommend using this function and a lead is supplied. A 12 volt signal is supplied by the AV amp/receiver and tells the MASS W200 to turn on from standby mode. This allows a more accurately controlled auto on/off function, and is far more energy efficient. When using the 12v trigger, the Mode Switch (8) can be in any position, for it to function correctly.

4. Crossover Frequency Control
   The crossover frequency control only operates when using the RCA stereo input (1). This control feature is used to set the upper frequency limit (low pass) of the MASS W200. The crossover control should be set in accordance with the size or bass output of the main/ satellite speakers. When using the MASS 10's, set this to around 80Hz. Experimentation is advisable.

5. Volume Control
   This control allows the level or volume to be adjusted in order to achieve a balanced overall sound. To use this facility you will need to play a selection of familiar music or film excerpts. Start with the volume at minimum and increase the level control until a balanced sound is established. If using an AV processor or AV receiver amplifier, the system can be adjusted by the test tone function within the set-up features. (Refer to the set up section in the AV processor or AV receiver amplifier user guide.) When the MASS W200 is correctly set-up, you should not be able to identify its location easily in the room.

6. Bass Switch
   This switch tailors the bass response of the MASS W200 to your tastes. There are three settings: Music, Movies and Impact. In Movie mode, it provides a relative flat response down to 35Hz. Music mode is -2dB down on Movie mode but goes lower, all the way down to 30Hz. Impact mode is +3dB up on Movie mode and comfortably goes down to 40Hz.

7. Phase Control Switch
   The Phase Control is used to synchronise any delay between the MASS W200 and main/satellite speakers. When the MASS W200 is in phase with the main/satellite speakers the sound should be full bodied. Sit in a normal listening position whilst adjusting the phase switch. Help from another person may be required. When set correctly the location of the subwoofer should be almost undetectable. Experimentation is advisable in order to achieve optimum results. However it should be noted that in most cases the phase control switch should be set to 0 degrees, especially when using a digital AV processor or AV receiver amplifier.

8. Power Mode Switch with On-Auto Facility
   With the switch in the 'On' position, the subwoofer is permanently switched on under all conditions. In the 'Auto' position the subwoofer will automatically switch on when an input signal is received and will remain on for a period of time without receiving a signal before switching into standby mode until a signal is received once more.

9. Mains Power Switch
   The Mains Power Switch should be switched to the 'Off' position when the MASS W200 is unused for extended periods. The switch must be in the 'On' position for the subwoofer to function.
   WARNING: Due to the mains switch being located on the rear panel, the apparatus must be located in the open area with no obstructions to access the mains switch.

10. Figure 8 Mains Power Connector
    The MASS W200 is supplied with a two-pin mains input socket for connection to the mains supply. Use ONLY the appropriate mains lead provided with the product.

The LED on the top of the cabinet indicates whether the unit is in stand-by mode or operational. It will be illuminated red when in stand-by, and green when operational.

Specification

System Format :-	Active sub-woofer system – Auxiliary (ABR) loading. 18mm MDF cabinet (CARB2 approved)
Low Frequency Limit :-	30Hz (-6dB)
Upper Frequency Limit :-	Variable 40 – 120 Hz @ 24dB/Octave
Amplifier Power Output :-	220 Watts @ 1% THD+N
Amplifier Classification :-	Class D amplifier with Switch mode power supply (SMPSU)
Bass EQ Switch :-	Music/ Movie/ Impact
Phase Control :-	0-180 degrees
Auto Sensing :-	Line Level >3.5mV
Input Level Requirements :-	Standby after approximately 20 minutes if no signal sensed
Driver Compliment :-	1 x 10” (250mm) C-CAM® long throw driver 1 x 10” (260mm) Auxiliary bass radiator
Input Impedance :-	> 20K Ohms
Mains Input Voltage :-	100 - 120 Vac / 220 - 240 Vac 50/60Hz (Factory Region Preset)
Dimensions :- (Including grilles & feet)	420 x 385 x 385mm (H x W x D) 16 $^{9/16}$ x 15 $^{3/16}$ x 15 $^{3/16}$ Inch (H x W x D)
Connections :-	Stereo RCA in, LFE in, 12v Trigger in (3.5mm mono mini-jack)
12v Trigger Input :-	5 - 12v via 3.5mm mono mini-jack socket
Power Consumption :-	200 Watts / 0.5 Watts in Standby (ErP approved)
Weight (unpacked) :-	15.96Kg (35lb 2oz)

Trouble Shooting

Should you experience any technical, or set-up problems with your subwoofer please check the Trouble Shooting Guide below:

My subwoofer will not turn on/ no power.

- Is the LED illuminated on the top of the unit? If not, then check your mains lead is properly connected both at the subwoofer and at the mains outlet. Also check the fuse of the mains plug (where fitted).
- Is the LED red? If so, you have power going to the unit. It could be that there is no signal, or the 12v trigger is connected and the source not turned on (see below).
- Have you got the 12v trigger connected? If so, the subwoofer will not power up until the source is powered up.
- Is the unit receiving a signal (12v trigger not being used)? Is the Power Mode Switch in Auto or On position, and signal source turned on? Try adjusting the volume level of the source.

If it still does not turn on/ power up, please contact your local dealer/ distributor or Monitor Audio immediately.

No sound from subwoofer.

- Is the LED on the top red or green? If it is red, then the unit hasn't actually turned on. See above suggestions. If it is green, then your unit is powered up and turned on. Check further suggestions below.
- Are the signal leads connected correctly? Check these. If possible, check by replacing with a second, working set.
- Is the volume level just very low? Try turning the volume on the source up a bit more.

If it still does not output a signal, please contact your local dealer/ distributor or Monitor Audio immediately.

Owner Information

Product Details

Model **MASS W200**

Product Serial No ……..

Date of Purchase ……

Dealer Details

Dealer Name ……

Address ……

Town, Post code, Country ……

e-mail address ……

Monitor Audio reserves the right to alter specifications without notice.